Operating Instructions

STEREO MULTI-PLAY CD CASSETTE DECK RECEIVER

XR-J11M/XR-J22M

AUTO RETURN STEREO TURNTABLE

PL-J210

SPEAKER SYSTEM

S-J11/S-J11D

* The XR-J22M, PL-J210 and S-J11D are not sold in U.S.A. and Canada.

COMPACT disc DIGITAL AUDIO

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE

[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

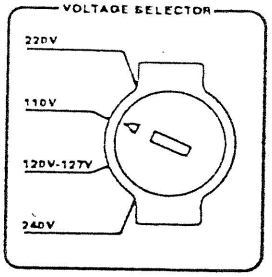
CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch.
Main voltages in Saudi Arabia are 127 V and 220 V only. Never use this model with 110 V setting in Saudi Arabia.
Before your model is shipped from the factory, this switch is set to the power requirements of the destination; nevertheless, you should check that it is set properly before plugging the power cord into the wall outlet.

1. Disconnect the power cord.
2. Use a screwdriver with a tip that fits neatly in the groove.
3. Insert the screwdriver into the groove on the voltage selector and adjust according to the voltage value of your area.



[For Multi-voltage model]
CAUTION
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

[For Multi-voltage model]
FM/AM CHANNEL STEP SWITCH

Adjustment is only necessary when there is a CHANNEL STEP switch at the rear panel.
The CHANNEL STEP switch is located on the rear panel of the CD deck receiver. Before the CD deck receiver leaves the factory, this switch is set to the channel step standard of the area where the CD deck receiver is sold. Depending on the position of this switch, each time TUNING button is pressed, the frequency display changes by the following amount:

[100 kHz/10 kHz] position
For areas with channel step of 100 kHz for FM and 10 kHz for AM.
[50 kHz/9 kHz] position
For areas with channel step of 50 kHz for FM and 9 kHz for AM.
NOTE:
If the switch is set to the wrong position, correct tuning may not be possible.

Consult your dealer if you are not sure about the radio channel step standard in your area.

Information to User
Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

PIONEER
The Art of Entertainment

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged.
- Objects have fallen, or liquid has been spilled into the appliance.
- The appliance has been exposed to rain.
- The appliance does not appear to operate normally or exhibits a marked change in performance.
- The appliance has been dropped or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.
In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

CART — An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

NEC — NATIONAL ELECTRIC CODE

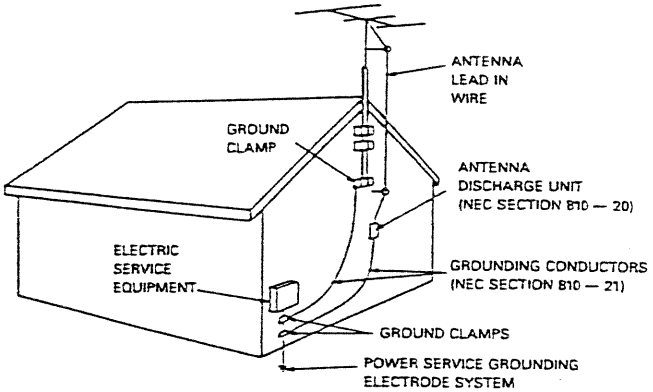

ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810 — 20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810 — 21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

FIG. A

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

[For Canadian model]

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.

CAUTIONS REGARDING HANDLING

LOCATION

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.

Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Also avoid installation near cookers, etc., where the unit may be exposed to smoke, steam, or heat.)

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CAUTION CONCERNING TURNTABLE INSTALLATION

If the turntable is placed directly on or very close to a speaker, the vibrations from the speaker may be transmitted to the tonearm's cartridge, thus causing feedback howling. Be sure that speakers are placed sufficiently away from the turntable.

CONDENSATION

When the unit is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the unit may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

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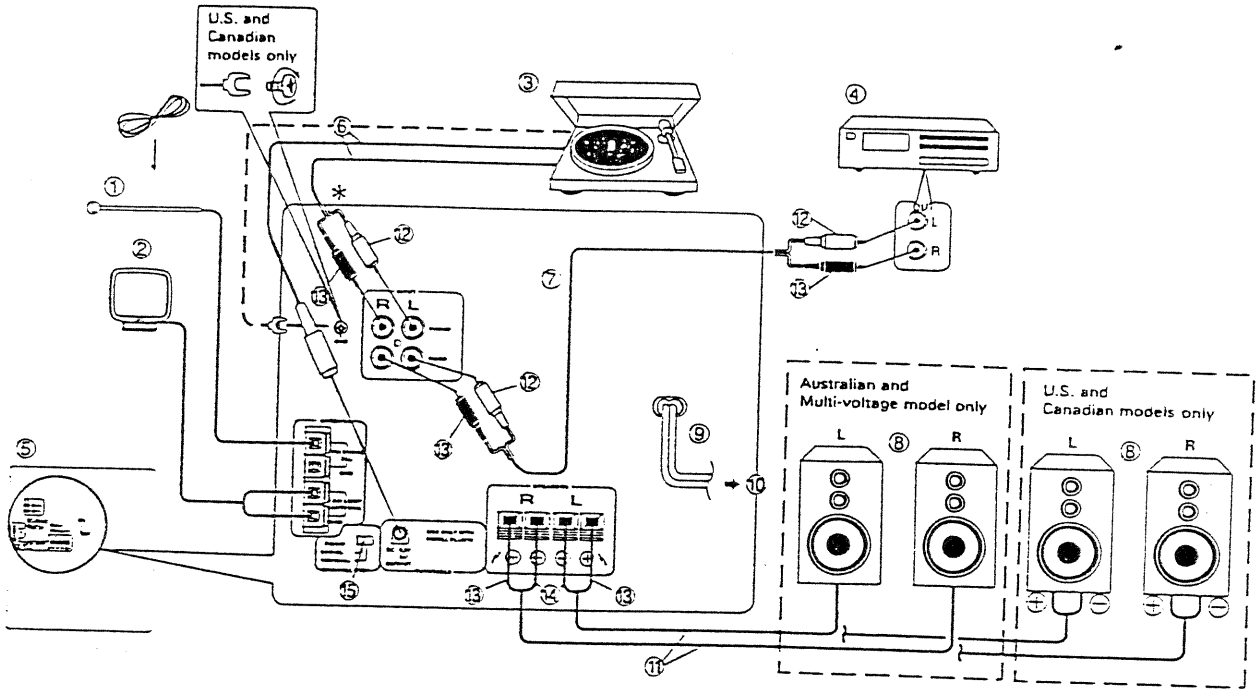
CONNECTIONS

1



* Illustration shows Multi-voltage model.

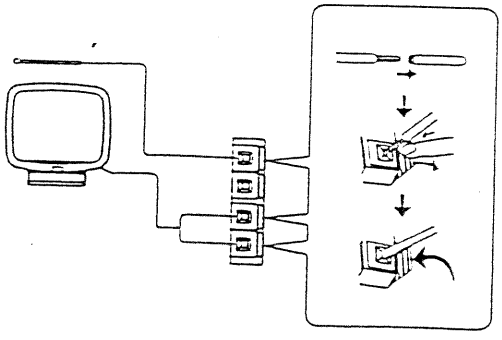
Refer for the connections on Fig. 1.

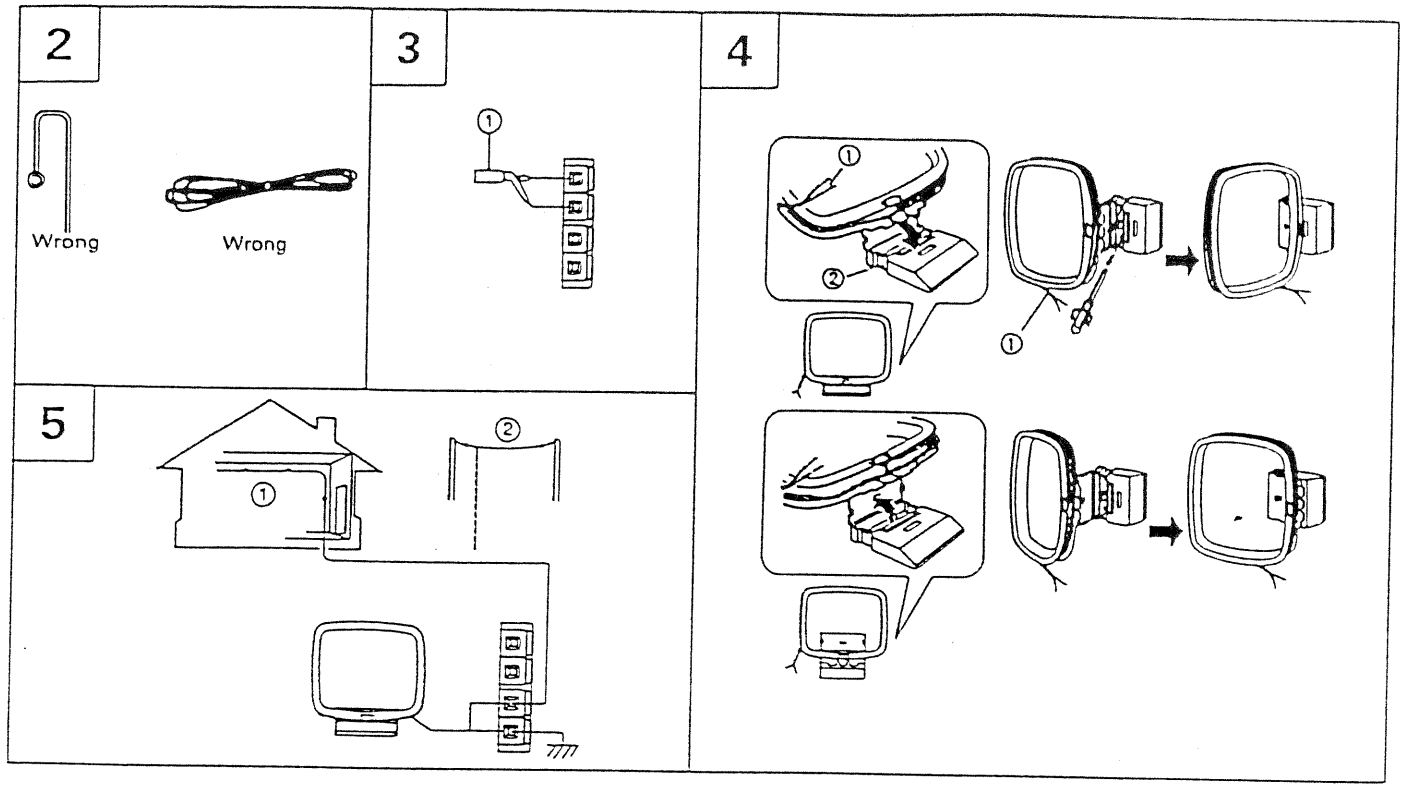
① Accessory FM antenna
② Accessory AM loop antenna
③ Turntable (Separately sold PL-J210)
④ Video cassette recorder (VCR)
⑤ CD deck receiver
⑥ Turntable connection cords
⑦ Audio cord
⑧ Speaker system
⑨ Power cord
⑩ To the AC wall socket
⑪ Speakers cords
⑫ White
⑬ Red
⑭ Black
⑮ Refer to page 1.

Plug the power cord into the household electrical outlet only after all the connections have been completed.

Proceed as follows with the set up and connections.

1. Connect the FM antenna ① and the AM loop antenna ② to the CD deck receiver's antenna terminals.



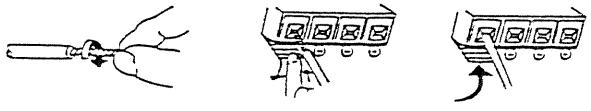


2. **Place the turntable on top of the CD deck receiver.**
3. **Connect the turntable connection cords ⑥ to the CD deck receiver's jacks.**
   If using the turntable PL-J210, connect the turntable's audio cords and power supply cord respectively to the CD deck receiver's PHONO jacks and DC 12 V OUTPUT jack.
   If using a different turntable, connect its audio cord and ground cord.
4. **Connect the video cassette recorder's OUTPUT jacks to the CD deck receiver's VIDEO jacks with an audio cord.**

NOTE:
Insert the plugs securely into the jacks. Improper connection can lead to sound distortion or malfunction.

5. **Connect the speaker cords ⑪ to SPEAKERS terminals.**
[For S-J11D]
Connect the red cords to the "+" (red) terminals and the black cords to the "—" (black) terminals.
[For S-J11]
Connect the "⊕" terminals on the receiver to the "⊕" terminals on the speakers, the "⊖" terminals on the receiver to the "⊖" terminals on the speakers.

① Twist the wire strands.
② Push the tab and insert the cord into the terminal.
③ Release the tab. Be sure to tighten the cords firmly.



NOTE:
Do not allow the conductors of the cords to project out of the terminals or to come into contact with other conductors. A breakdown or failure may occur when conductors touch.

6. **Finally, connect the power cord ⑨ to the AC wall socket.**

ANTENNA CONNECTIONS

Radio reception is not possible unless the antenna is properly connected.

The strength of broadcast signals varies from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings, and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

FM Antenna Attachment (Fig. 2)

Connect the accessory FM antenna to the FM terminal. Extend the antenna out to its full length, and affix it to a wall, etc.

External FM antenna installation (Fig. 3)

Use an external antenna when the signals from the station are weak and cannot be picked up by the accessory FM antenna, or when the sound heard is accompanied by too much noise. When the connecting cable is a 75 Ω coaxial cable.
① 75 Ω coaxial cable

AM ANTENNA

The AM loop antenna supplied with this unit should be connected to the AM antenna terminals. The antenna should be placed at a distance from this unit, and should not be allowed to touch metallic objects. Avoid placing it near CD players, personal computers, television sets, and other devices generating radio frequencies.

Setting Up the AM Antenna (Fig. 4)

- Insert the clip on the bottom of the antenna into the groove on the leg.
- To permanently fix the antenna, screw the leg to a wall or something similar before assembling (fixing the antenna in the direction that gives the best reception).
- Place the antenna on a level surface and rotate it to locate the orientation that yields the best reception.

① lead wire ② leg

External AM antenna (Fig. 5)

① Indoor AM antenna

Provide a vinyl-coated wire (5 to 6 meters 17 to 20 feet long). Secure one end to the AM terminal and the other end to a wall or other high location.

② Outdoor AM antenna

If reception is still poor even when a lead antenna has been fully extended indoors, stretch out a vinyl-coated wire and secure it outdoors.

NOTE:

Do not detach the AM loop antenna when using the external AM antenna.

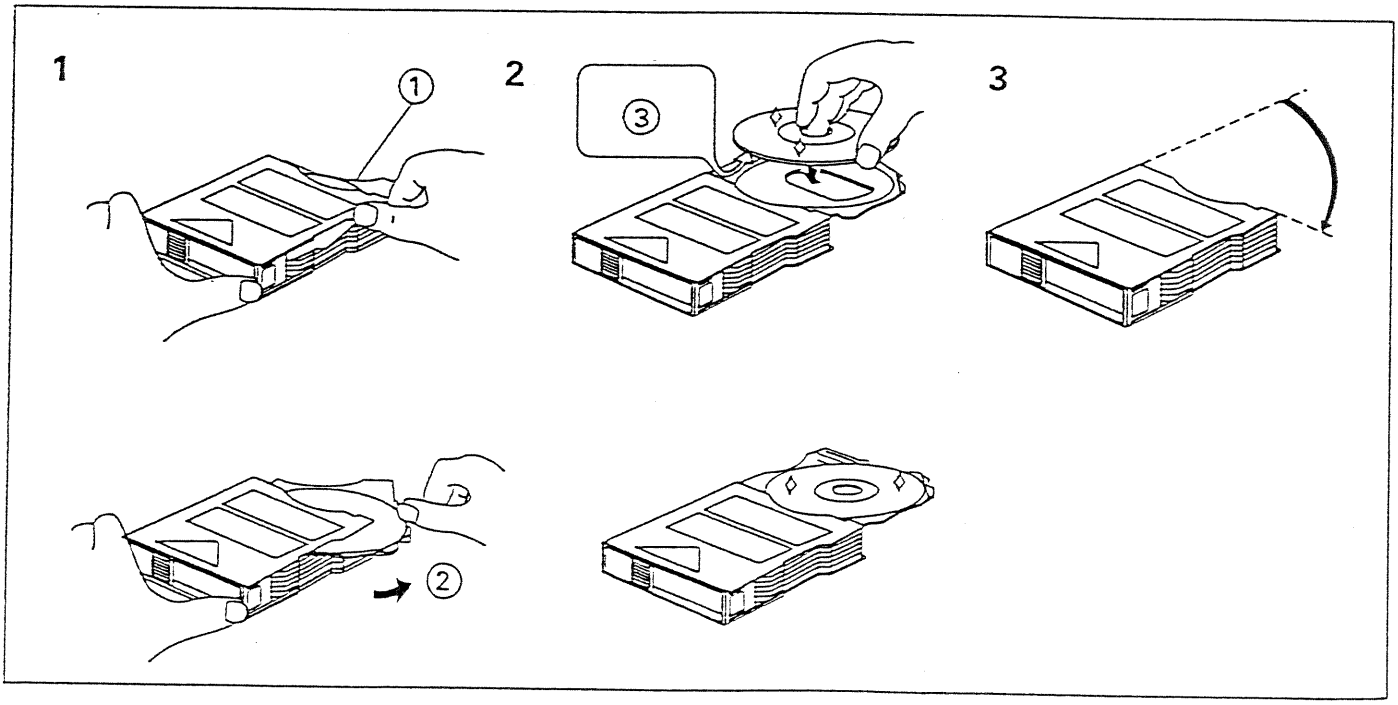
ANTENNA GROUND

Although grounding is not necessary for reception, it is recommended for protection against damage from lightning for an outdoor FM antenna. Grounding is also recommended to reduce noise and hum.

NOTE:

Never make the ground connection to a gas pipe as sparks can cause the gas to ignite.

MAGAZINE



INSERT DISCS INTO THE SIX-DISC MAGAZINE

Insert any discs which you may have into the supplied magazine. Up to six discs may be inserted. The numbering of discs beings with 1 at the topmost tray, and then increases in order from 2 to 6 for the lower trays.
The magazine has a window through which the pulled-out disc tray can be checked. Even during playback, the number of the disc being played back can be checked through this window.

CAUTION:
- *In order to play an 8-cm (3-inch) CD you will need a special Multi-Play Magazine (JD-M108, JD-M308) which is sold separately. Be sure to read thoroughly the Operating Instructions before using it.*
- *8-cm (3-inch) CD adaptor*
  It is possible that even an adaptor which meets recommended standard CD specifications will not be usable with the CD player. It is recommended that the special Multi-Play Magazine (JD-M108, JD-M308) be used.
- *Never load an 8-cm (3-inch) CD or its adaptor into a standard 12-cm (5-inch) magazine. This may seriously damage the CD player.*
- *Do not install only an 8-cm (3-inch) disc or only the adaptor.*

1. Pull out only one disc tray.
   See Fig. 1
   ① Disc tray
   ② Make sure to pull out only 1 disc tray

2. **Position discs with the label side downward.**
   See Fig. 2
   ③ Label side downward

3. **Put the disc tray back as it was originally.**
   See Fig. 3

4. **Insert other discs by repeating steps (1) to (3).**

CAUTION:
- *Please make sure to only pull out one disc tray at a time. (When a disc tray has been pulled out, do not pull out other disc trays.)*
- *If discs are inserted label side upward, it will not be possible for them to be played. Please make sure to insert them with the label side downward.*
- *Objects other than discs (song cards, explanations of disc contents, etc.), must never be inserted into the disc trays.*
- *Do not touch the playing surface of discs (the iridescent side) with hands or fingers.*

Additional magazines identical to the one supplied are available as options *(JD-M100, JD-M200, JD-M300, JD-M308, JD-M108). Please use them to make your own disc library, with separate magazines for each artist or genre.

* JD-M100, JD-M200, JD-M300 ... Magazine for six 12-cm (5-inch) discs.
JD-M108, JD-M308 ..... Magazine for six 8-cm (3-inch) discs.

CAUTION:
Both 12-cm discs and 8-cm discs cannot be installed together in the same magazine.

For U.S. customers only

You may purchase additional Pioneer six-compact-disc magazines from your dealer. If however, they are not available at your dealer in the United States, you may order from:

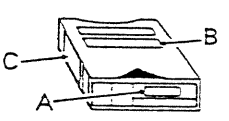
PIONEER ELECTRONICS SERVICE, INC.
2265 East 220th Street
P.O. Box 1760
Long Beach CA 90801-1760
Phone no. 1-800-228-7221

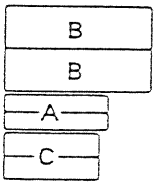
CAUTIONS REGARDING HANDLING OF MAGAZINES

- When inserting a magazine into the player, make sure that the direction of insertion is correct.
- After use, store in the case provided. Do not place in locations subjected to high temperatures or exposed to direct sunlight.
- Do not take magazines apart.
- Be careful not to drop or hit magazines against things. Also, do not apply strong force to trays which have been withdrawn.
- Application of benzine, thinner, insecticide or other volatile liquids to a magazine may damage the surface, so keep magazines away from such substances.

AFFIXING LABELS TO 6 DISC MAGAZINE

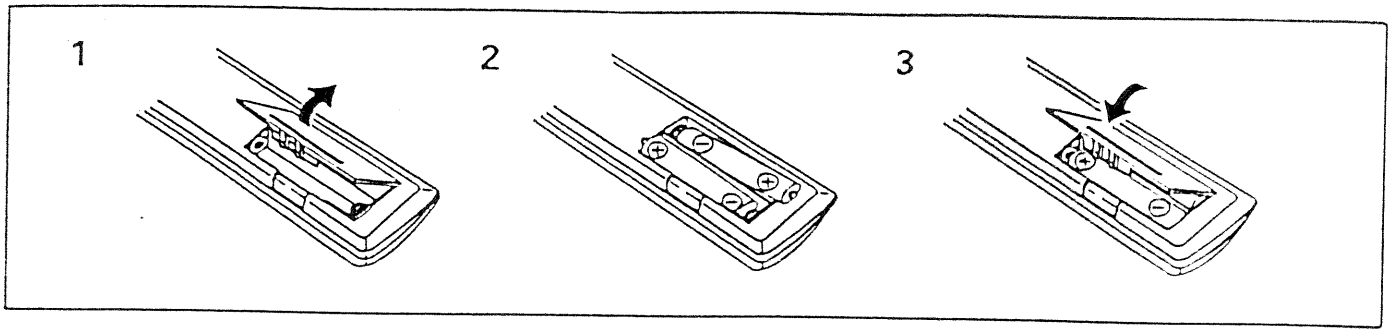
- Always attach the labels provided in the designated locations. Correct operation may not be possible if labels or tape are attached in other locations.





The following are convenient ways of using labels:
A: For titles
B: For disc names
C: For classification
- Do not attach on top of other labels.

LOADING BATTERIES INTO REMOTE CONTROL UNIT



1. Open the rear cover.
2. Install size "AA" (IEC R6/UM-3) batteries, correctly matching polarity.
3. Close the cover.

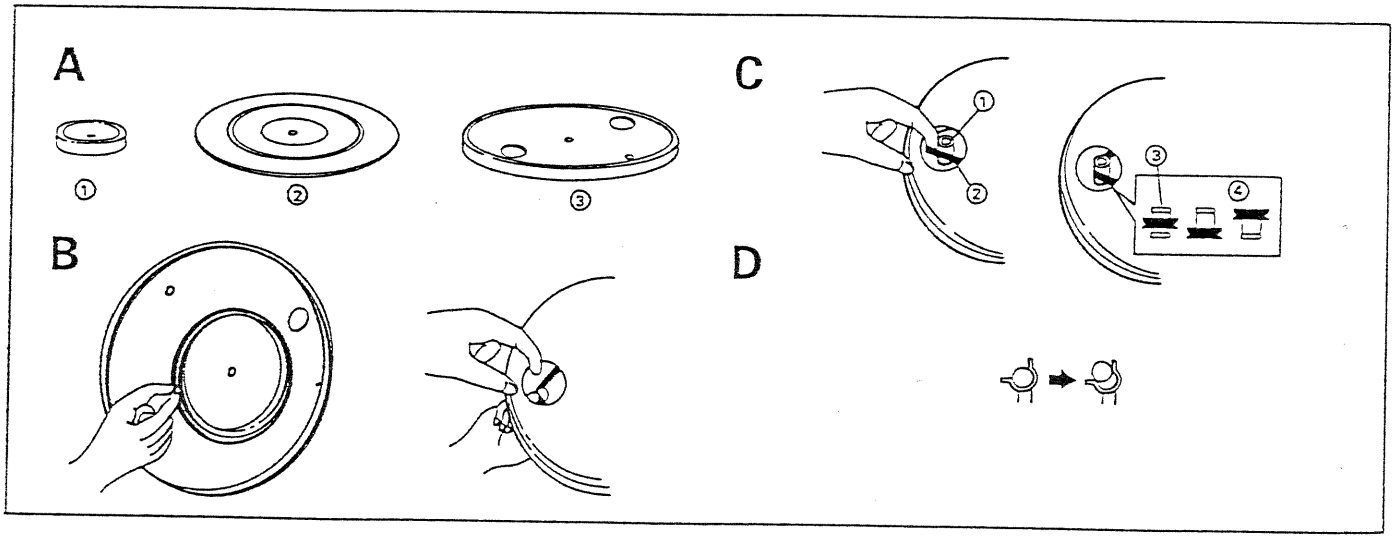
Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

A:
Always insert batteries into the battery compartment, correctly matching the positive (+) and negative (−) polarities, as indicated inside the compartment.

B:
Never mix new and used batteries.

C:
Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

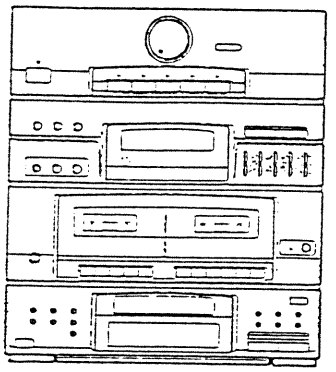
PL-J210 TURNTABLE SET UP

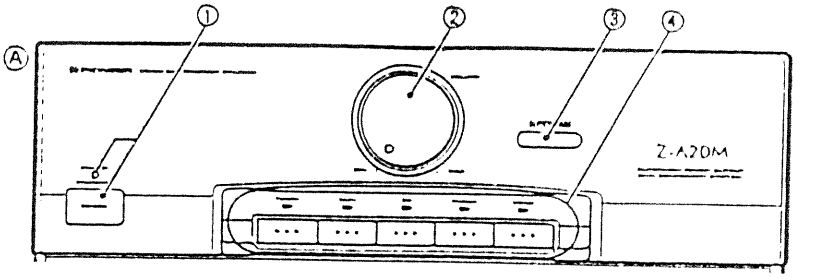


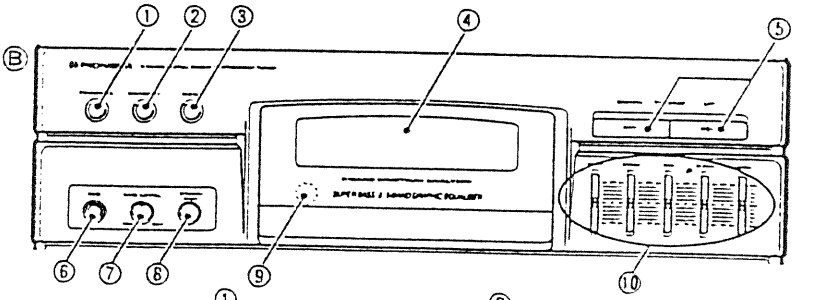
1. Check the parts (See diagram A).
   ① EP adaptor (You will find this taped on the cabinet).
   ② Platter mat
   ③ Platter
2. Pinch belt on inner rim between thumb and forefinger (See diagram B).
3. Slip belt over finger and pull out, inserting finger in hole.
4. Insert finger from top of platter and transfer belt to forefinger.
5. Lower platter onto spindle.
6. Release belt onto pulley (See diagram C).
   ① Pulley
   ② Belt
   ③ Correct
   ④ Incorrect
7. Place platter mat on platter (with "PIONEER" side up).
8. Remove the vinyl band holding the tonearm.
9. Remove the plastic cover from cartridge stylus.
10. Remove the tonearm from the armrest (See diagram D).

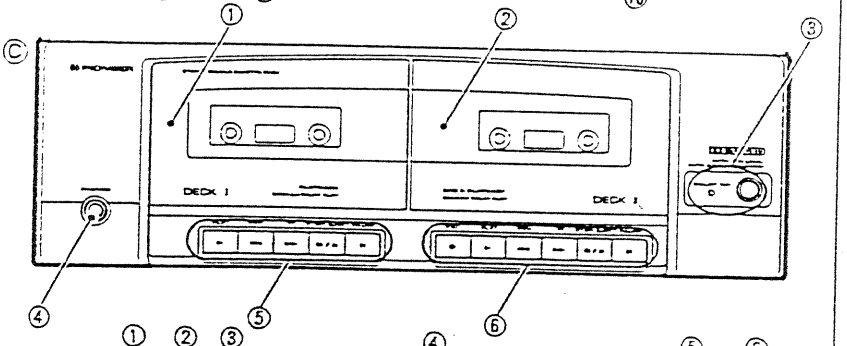
PANEL FACILITIES

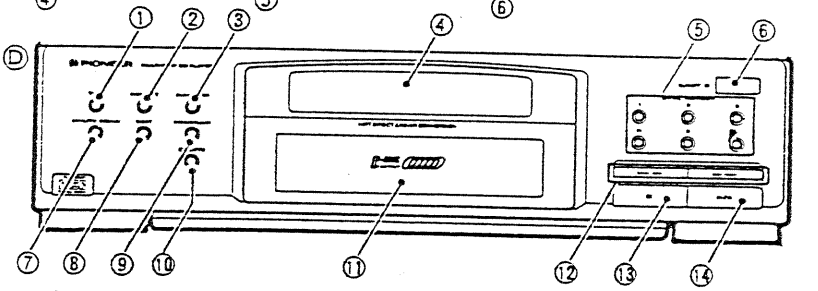
XR-J22M



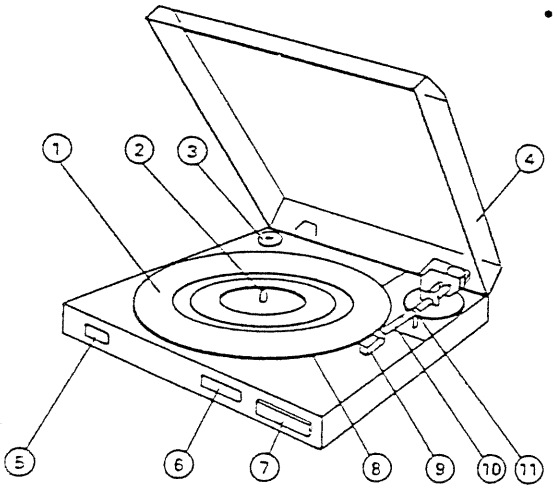


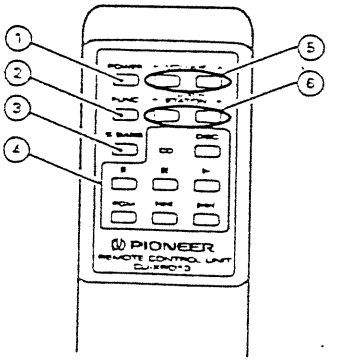






• Illustration shows Australian and multi-voltage models of XR-J22M.





FRONT PANEL FACILITIES

Stereo multi-play CD cassette deck receiver: XR-J11M/XR-J22M

Ⓐ: ◪ Amplifier Section

① POWER STANDBY/ON switch /STANDBY indicator

This is the switch for electric power.

ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
The unit is in STANDBY when only the STANDBY indicator above the POWER switch is lit.

② VOLUME control

③ SUPER BASS button

Set to ON to augment bass frequency response.
The indication lights in the display section ④ when SUPER BASS is ON.

④ Input selector buttons

[TUNER]
Press to listen to radio broadcast.
[TAPE]
Press to listen to cassette tape.
[CD]
Press to listen to a CD.
[PHONO]
Press to play records on a turntable connected to the PHONO jacks.
[VIDEO]
Press to listen to a video cassette recorder connected to the VIDEO jacks.

Ⓑ: ◪ Tuner and Graphic Equalizer Section

① FREQ/STA button

See pages 16, 17.

② MEMORY button

Used for memorizing stations (see page 17).

③ BAND selector button

Each time this button is pressed, FM or AM reception is selected alternately.

④ Display section

Shows the received broadcast frequency or station call number, reception conditions, and graphic equalizer level settings, etc.
FM and MHz light: FM reception.
AM and kHz light: AM reception.
Channel display: Station call number display
STEREO indicator: Lights when an FM stereo broadcast is received.
TUNED indicator: Lights when a broadcast is received and tuned in well.
S.BASS indicator: Lights when SUPER BASS is ON.
ST WIDE indicator: Lights when STEREO WIDE is ON (XR-J22M only).
Spectrum analyzer display: 5 band level display (XR-J22M only).

⑤ TUNING +, — (UP, DOWN) buttons

Used for locating stations.
Use "—" button for lower, and "+" button for higher station no. or frequencies.

⑥ MIC (Microphone) jack (XR-J22M only)

This is a standard jack for connecting a microphone.

⑦ MIC LEVEL control (XR-J22M only)

Used for adjusting the volume of the microphone.

⑧ STEREO WIDE button (XR-J22M only)

By turning this switch ON, you can enjoy STEREO WIDE reproduction.
The indicator lights in the display section ④ when STEREO WIDE is ON.

NOTE:
In the case of monaural source, STEREO WIDE effects cannot be obtained.

⑨ Remote sensor window (REMOTE SENSOR)

⑩ Graphic equalizer controls

Ⓒ: ◪ Cassette Deck Section

- Use TYPE I (normal) tape.
- Tapes can be played back on Deck I; tapes can be played back and recorded on Deck II.

① Deck I cassette door

② Deck II cassette door

③ DOLBY* NR switch (Except for Australian and multi-voltage models of XR-J11M)

Set this switch to the ON position to activate the DOLBY NR system.

- Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on. Sound quality will be adversely affected if played back with the system off, or if tapes recorded using a different noise reduction system are played back with the Dolby NR system on.
- It is recommended that tapes recorded with Dolby B type NR be so marked on the label. This will help prevent incorrect setting of the noise reduction switch during playback.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

④ PHONES (Headphones) jack

For stereo headphones.

NOTE:
There is no output from the speakers when headphones are plugged into PHONES jack.

⑤ Deck I operation buttons

► (PLAY) ..... For playing back a tape.
►► (F.F.) ..... Fast forward
◄◄ (REW) ..... Rewind
■/≙ (STOP/EJECT) .. Press to stop playback. Pressing when the deck has stopped playing opens the cassette door.
II (PAUSE) ..... Temporarily stops tape travel. Cancels pause mode when pressed again.

⑥ Deck II operation buttons

● (REC) ..... Press this button, and the ► button is simultaneously pressed for you to start recording.
► (PLAY) ..... For playing back a tape.
►► (F.F.) ..... Fast forward
◄◄ (REW) ..... Rewind
■/≙ (STOP/EJECT) .. Press to stop recording or playback, and to eject the cassette tape.
II (PAUSE) ..... Press to pause during playback or recording. To cancel the pause mode, press again.

Ⓓ: ◪ CD Player Section

① TIME button

Use to select the method for displaying the playing time on the display section.
Each time the button is pressed, the indication changes from TIME, REMAIN (track remain) and REMAIN (disc remain) : This will not be displayed during programmed playback to TOTAL in that order.

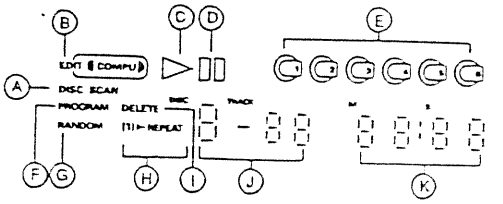
② REPEAT button

Press this button for repeat playback. Pressing the button once, twice, or three times will change the repeat mode from single track repeat, all tracks repeat, to repeat playback cancellation, respectively.

③ RANDOM play button

Press to begin random playback.

④ Display section



Ⓐ DISC SCAN : Lights after pressing the HI-LITE SCAN button.
Ⓑ EDIT ◖ COMPU ◗ : Normally [EDIT COMPU] is lit. When the EDIT button is pressed, ◖ ◗ lights up.
Ⓒ ▷ : Lights during playback.
Ⓓ II : Lights during temporarily interrupted playback.
Ⓔ ⊖ <DISC symbol> : If a nonexistent disc is searched for, the corresponding disc symbol goes off.
Ⓕ PROGRAM : Lights after programming (after program has been memorized).
Ⓖ RANDOM : Lights during random playback.
Ⓗ (1)►REPEAT : Lights during repeat playback of one tune. (1) extinguishes during repeat playback of all tunes.
Ⓘ DELETE : Lights during the delete program.
Ⓙ : Indicates the disc and the track currently being heard.
Ⓚ : Displays the minutes and seconds of the elapsed time, total playback time, and remaining time.

NOTE:
When power is turned on, the CD player section indicators show different indications depending on the condition (disc loaded or not, etc.) prior to when the power was turned off. This is not a malfunction.

⑤ DISC NUMBER buttons (1—6)

Use to select disc numbers for playback or programming.

⑥ EJECT button (≙)

Press to eject a magazine. When pressed, any magazine inside is expelled forward.

⑦ HI-LITE SCAN button (See page 21)

If this button is pressed while the unit is stopped, the first 10 seconds after the first minute of the first tune on each of the discs from DISC 1 to DISC 6 are played back in sequence (DISC SCAN). If this button is pressed during DISC SCAN, the first ten seconds after the first minute of all the tunes on each of the discs from DISC 1 to DISC 6 is played back (TRACK SCAN).
To reset the start-up time of HI-LITE SCAN, press the HI-LITE SCAN button during normal playback.
Enter the time of current playback in memory and 10-second passages on all the remaining tracks are played back at the memorized time.

⑧ EDIT button

Press this button and designate the number of minutes of tape for recording with the Manual/Track search button. The CD player then selects tunes and programs them automatically for recording so that the unrecorded portion at the end of the tape is minimized.

⑨ PROGRAM button

Use to program a sequence of tracks.

- When this button is pressed, the "PROGRAM" indicator will light. Select a desired disc and track with DISC NUMBER buttons and Manual/Track search buttons. Tunes will be added to the order in which they are specified.
- If only a DISC NUMBER button is pressed, all tracks on the specified disc will be added to the program. The letters "AL" will appear on the indicator.

⑩ DELETE button

Pressing this button and then selecting the discs with the DISC NUMBER buttons (1 through 6) and selecting the tracks with the Manual/Track search buttons will result in the selected discs and tracks not being played even when the play/pause button is pressed.

⑪ Magazine insertion slot

⑫ Manual/Track search buttons (|◄◄ · ◄◄, ►► · ►►|)

These buttons are used for track search and manual search during normal playback, programmed playback or pause. When these buttons are pressed, either the previous tune or the next tune is established. If they are kept depressed, either fast forward or reverse is established, depending upon the direction of button pressed.

⑬ Stop button (■)

Press to stop playback. When pressed, the player goes into stop mode and all operations stop.
[LAST DISC MEMORY]
If no program had been input when the stop button (■) is pressed to stop the disc, the number of the disc that was just played will be displayed (the track number is "01").
When the stop button (■) is pressed another time, the DISC NUMBER displayed will change to "1".
If a program had been input, the disc will be stopped with the DISC NUMBER of the first step and song number displayed.

⑭ Play/Pause button (►/II)

During stop, press this button to start playback. During playback, press this button to pause.
When this button is pressed during Hi-light scan, the Hi-light scan will be released, and the disc will be played normally.

Turntable: PL-J210

① Platter mat

② Platter spindle

③ EP adaptor

Place over the spindle to play 45-rpm singles.

④ Dust cover

⑤ SPEED switch

Set this switch in accordance with the speed of the record.
33: For 33-1/3 rpm records.
45: For 45 rpm records.

⑥ ARM ELEVATION switch

- To suspend record play temporarily.
- For changing the tracks during actual play.

[UP]: The tonearm rises (the stylus moves away from the record).
[DOWN]: The tonearm descends (the stylus is lowered onto the record).

⑦ STOP (■) button

Press this button to stop playback.

⑧ Platter

⑨ Cartridge

⑩ Tonearm

⑪ Armrest

Remote control unit

① POWER button

② Function (FUNC) button

Each time you press this button, the input selector changes.

③ S.BASS button

Switches S.BASS (SUPER BASS) ON and OFF.

④ CD operation buttons

Perform the connections so that the CD player is operated by the remote control unit.

►..... Play
⊢◄,►⊣ ..... Track search
■ ..... Stop
II ..... Pause
DISC ..... DISC selection
PGM (Program) button
..... See page 12.

⑤ VOLUME + (up) and — (down) buttons

When pressed, VOLUME on the receiver is actually moved by a motor.

⑥ TUNER STATION + and — buttons

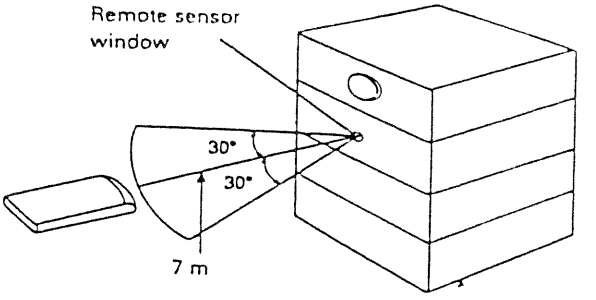
- Before operation, memorize broadcast stations.
- Refer to MEMORIZING STATIONS and RECEPTION USING PRESET TUNING on page 17.

\+ ..... Stations change in order in the upward direction
— ..... Stations change in order in the downward direction.

The receiver input selector automatically switches to the music source being operated when you press the CD playback (►), cassette deck playback (►), or tuner station controls.

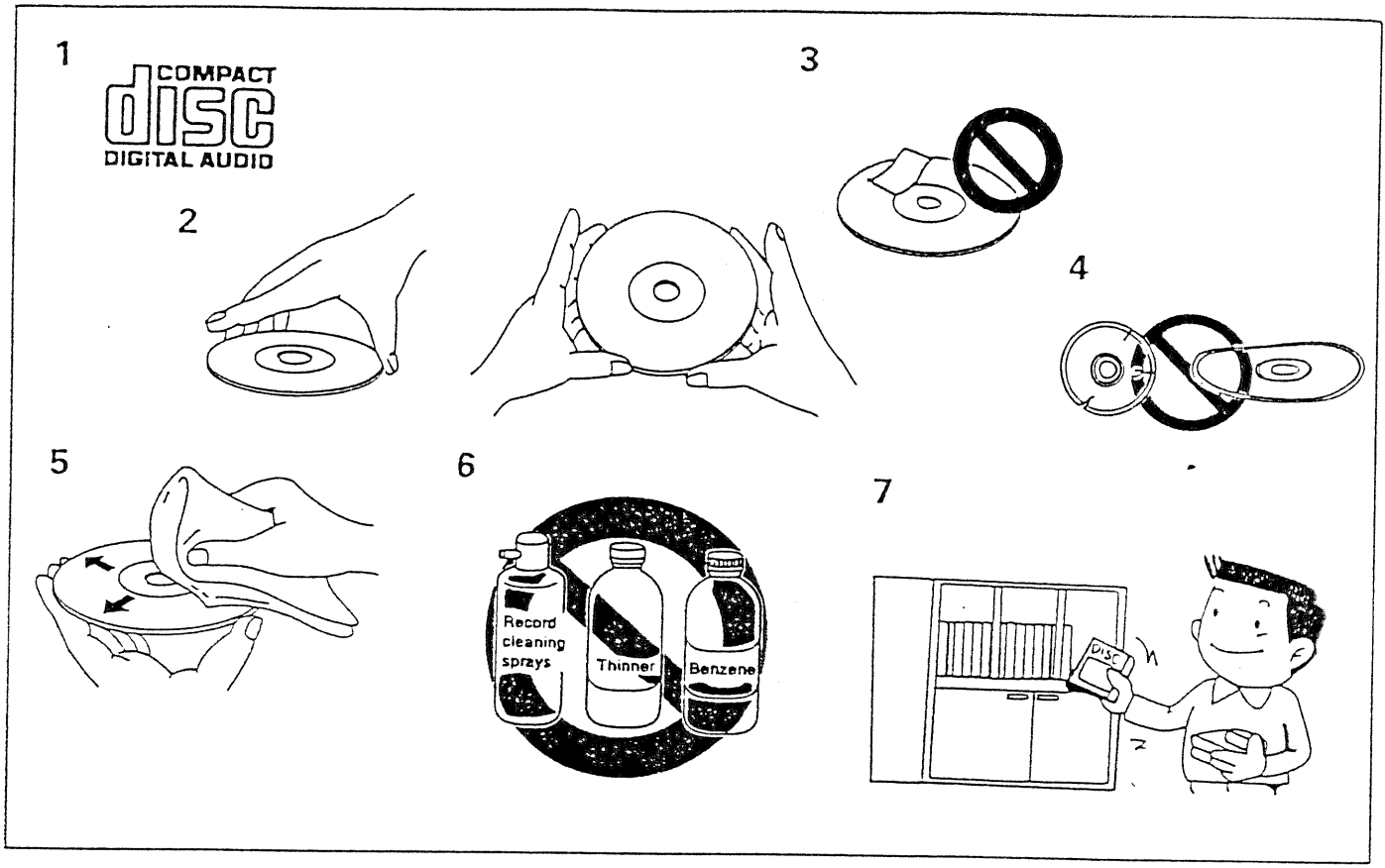
Range of remote control

Remote sensor window



When the remote control unit is pointed at the remote sensor window on the tuner section and any of its buttons is pressed, the CD deck receiver can be operated by remote control.
Distance: Within a range of approx. 7 meters from the remote sensor window.
Angle: Within approx. 30 degrees from the center of the remote sensor window.
Remote control will not be possible if there is an obstacle between the remote control unit itself and the remote sensor window.
Performance of the remote control unit is adversely affected in presence of strong fluorescent light. Keep such lights away, especially from the sensor window.

CAUTIONS REGARDING COMPACT DISC HANDLING



CARE OF DISCS

- With this unit, use discs which display the mark shown in Fig. 1 (Optical digital audio discs)
- When holding discs, do not touch their signal surfaces. Hold the edges, or one edge and the center hole. See Fig. 2.
- Do not affix labels or adhesive tape to the label surfaces. Also, do not scratch or damage the label. See Fig. 3.
- Discs rotate at high speed inside the unit. Do not use damaged (cracked or warped) discs. See Fig. 4.

CLEANING DISCS

- The presence of fingerprints or smudges on the surface of the disc will not directly affect the recorded signals; but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality.
  Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter. See Fig. 5.
- If a disc becomes very dirty, wet a soft cloth in water. After wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.
- Do not use record cleaning sprays of anti-static agents on discs. Also, never clean discs with benzene, thinner or other volatile solvents which may cause damage to the disc surface. See Fig. 6.

STORING DISCS

- Discs are made of the same kind of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures. Avoid leaving discs in cars and on the seats, being exposed to direct sunlight can be harmful. See Fig. 7.
- Always read and abide by the precautionary notes listed on the disc labels.

CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, ask your nearest PIONEER authorized service center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

HOW TO HANDLE CASSETTE TAPES

Bear in mind the following points before loading cassette tapes.

Is the tape loose, or is some of the tape outside the cassette?
If some of the tape is projecting outside the cassette shell or if it is loose, it may not feed between the capstan and pinch roller. This will prevent the tape from being transported or damage the tape itself. In cases like these, insert a pencil into the reel hole and take up the slack (Fig. A). Some cassette tapes come with a plastic or thick paper stopper which prevents tape slack. Remove this stopper when loading the tape and replace it after having used the cassette.

What are the accidental erasure prevention tabs for?
A cassette is provided with these tabs so that important recordings will not be erased accidentally. When the tab (Fig. B) on the cassette shell is broken out with the tip of a screwdriver, it will not be possible to activate the recording function even by pressing the recording (REC) button, so valuable recordings will not be erased in error.
To re-record on a cassette whose tabs have been broken out, simply stick a piece of doubled adhesive tape over the tab areas, as shown in Fig. C.

NOTE:
The accidental erasure prevention tabs are located at the top left on both sides A and B (1 and 2), so that material on each side can be prevented from being erased in error.

Tips on using cassette tapes

- Leader tape (which does not allow sound to be recorded over it) is provided at the beginning of a cassette tape. Start recording after allowing the tape to run for approx. 5 seconds so that the leader tape clears the recording head.
- Do not leave a cassette tape exposed to the environment. Store the cassette in its case so that dust and dirt do not adhere to the tape after use, and so that the tape is prevented from becoming slack. Choose a location which is not exposed to the effects of magnetism, dust, dirt and oil for storing the tapes.

- Do not use cassette tapes longer than C-90.
Tapes longer than C-90 are quite thin and easily jam in the pinch roller and capstan and may also cause irregular winding. Do not use them in this unit.
Use tapes of 90 minutes or less.

Fig. A

How to take up tape slack.

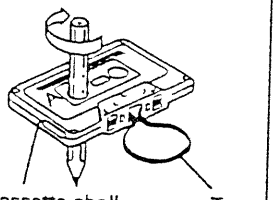


Fig. B

How to prevent already recorded tapes from being erased.

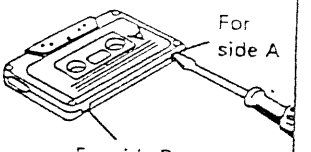
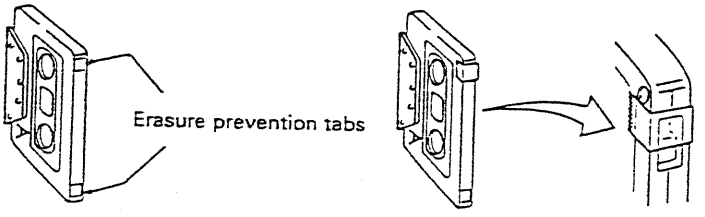


Fig. C

When you want to record again on a cassette with broken erasure prevention tabs, cover the tab sections with a double layer of adhesive tape.



BASIC OPERATIONS

PREPARATION

Press POWER switch of the CD deck receiver.
Select an input selector button.

NOTE:
CD player operation buttons do not function if you select TUNER with the input selector. If you select TUNER with the input selector when a CD is playing, the CD player stops.

Graphic Equalizer Controls (Amplifier section operation)

The advantage of the GRAPHIC EQUALIZER over conventional tone controls is that the five controls of the GRAPHIC EQUALIZER make it possible to control five different narrow, distinct sections of the audio band. With conventional tone controls a setting for a bass or treble boost or cut will also affect the lower or upper mid frequencies. The frequency bands controlled by the five slide controls have been chosen to yield the maximum possible control action within the audio spectrum.

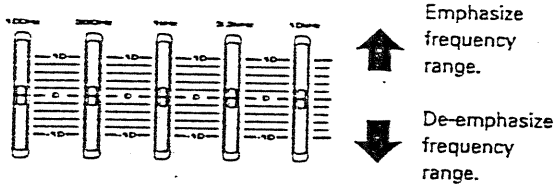
100 Hz : The 100 Hz control is very useful for enhancing low bass notes as in organ music.

330 Hz : The 330 Hz control will allow you to vary the upper bass frequencies.

1 kHz : The 1 kHz control is the presence control and can be used very effectively to emphasize, or de-emphasize vocalists.

3.3 kHz : The 3.3 kHz control will add brilliance and clarity to brass instruments and violins.

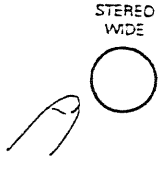
10 kHz : The 10 kHz control can be used to make up for missing high frequencies absorbed by the environment and to add a natural crispness to music.



NOTE:
The GRAPHIC EQUALIZER controls function in the modes playback. The GRAPHIC EQUALIZER controls do not function when recording from program source (including tape copying).

STEREO WIDE FUNCTION (XR-J22M only) (Amplifier section operation)

This function enhances the stereo effect.
Note however, that it does not operate in the case of a monaural source.
Each time the STEREO WIDE button is pressed, the effect will be changed on and off.



RECORD PLAY (Turntable PL-J210)

1. Set input selector button on the receiver to PHONO.
2. Place record on the platter mat.
3. Set SPEED switch.
4. Set ARM ELEVATION switch to UP position.
5. Release the tonearm from the armrest.
6. Move the tonearm by hand to the desired position over the record.
7. Set ARM ELEVATION switch to DOWN position.
   • The tonearm descends onto the record and playback starts.
8. Adjust the volume with VOLUME control on the amplifier section.
9. To stop the player while a record is being played, press STOP (■) button.

TUNING INTO STATIONS (Tuner section operation)

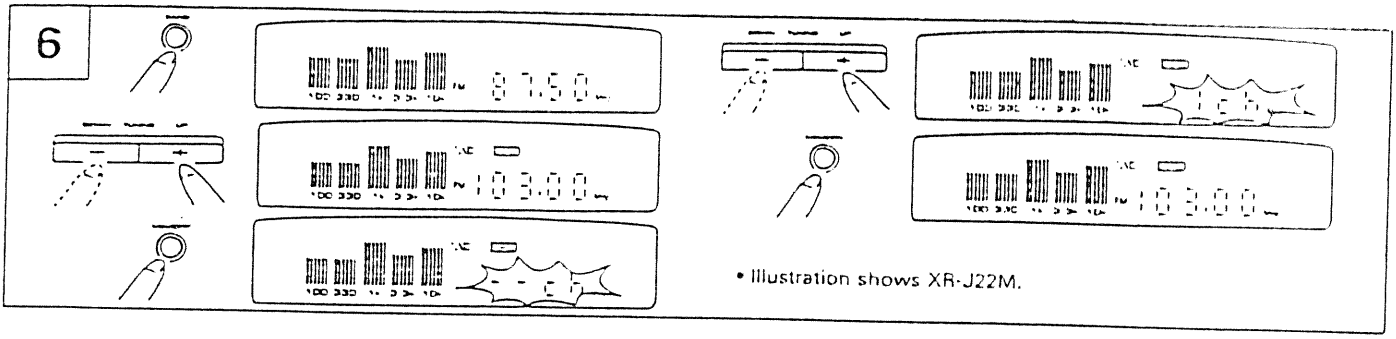
1. Select the desired broadcasting band using BAND selector button.
2. Press FREQ/STA button to select frequency mode.
   FM or AM frequency indication appears on the display.
3. Press TUNING "+" or "−" button for higher or lower frequencies.

[Auto tuning]
Press "−" or "+" button until the frequency starts to change, then release it.
The tuner will automatically search for a broadcasting station, stops when one is found, and the TUNED indicator lights up. To search for another station, press again.
• To interrupt auto tuning, press "−" or "+" button again.

NOTE:
When auto tuning is in use, reception may not be possible for distant stations or when signals are weak. At these times manual tuning is recommended.

[Manual tuning]
Press "−" or "+" button and release quickly.
The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.
• If you keep the "−" or "+" button depressed after the frequency has begun to change, the reception frequency changes continuously, and stops when the button is released.

4. Adjust VOLUME control on the amplifier section.



• Illustration shows XR-J22M.

MEMORIZING STATIONS (Tuner section operation)

(See Fig. 6)

Presetting

Up to 24 FM/AM stations can be memorized at random.

1. Press FREQ/STA button to select frequency mode.
   • FM or AM frequency indication appears on the display.
2. Select the desired band with the BAND selector button.
3. Tune into the broadcast station you want to memorize.
4. Press the MEMORY button.
5. Select the channel (station call no.) you want to memorize with the TUNING + (up) or − (down) button within five seconds.
6. Press the MEMORY button within five seconds.
   • During memory operation, after showing a flashing channel indication, it shows the frequency.
7. Repeat steps 2 through 6 to memorize up to 24 stations.

RECEPTION USING PRESET TUNING (Tuner section operation)

1. Switch to the station mode with the FREQ/STA button. "−ch" appears on the display.
2. During channel indication display (2 to 3 seconds), select the desired channel with the TUNING + (up) or − (down) button. The remote control unit's TUNER STATION + or − buttons can be used in the same way. At this time, there is no need to press the FREQ/STA button.

Channel memory

The preset station memory will retain its contents even when the power switch is turned off or the power cord disconnected, so long as the power cord is not left disconnected for more than a few days.

Last station memory

The last received AM and FM stations remain stored despite input selector and/or POWER switching. To recall, use BAND selector button.

TAPE PLAY (Cassette deck operation)

Tapes may be played back in Deck I or Deck II.
While a tape is playing back, make sure the other deck is not playing. If you press both the ► (PLAY) button on both Deck I and Deck II, playback sound is from Deck II.

1. Press ■/≙ (STOP/EJECT) button, and load a recorded tape.
2. Set the DOLBY NR switch to the same position used for recording (Except for Australian and multi-voltage models of XR-J11M).
3. Press ► (PLAY) button.
4. Adjust VOLUME control on the amplifier section.
5. To stop playback, press ■/≙ (STOP/EJECT) button.

During operation of one of the decks, do not operate the other deck, except during relay play operation.

Auto Stop Mechanism

• The mechanism stops automatically when the end of tape is reached.

Relay playback

Relay playback from Deck II to Deck I is possible.

1. Start playback on Deck II.
2. Press the ❚❚ (PAUSE) button on Deck I.
3. Press the ► (PLAY) button on Deck I.

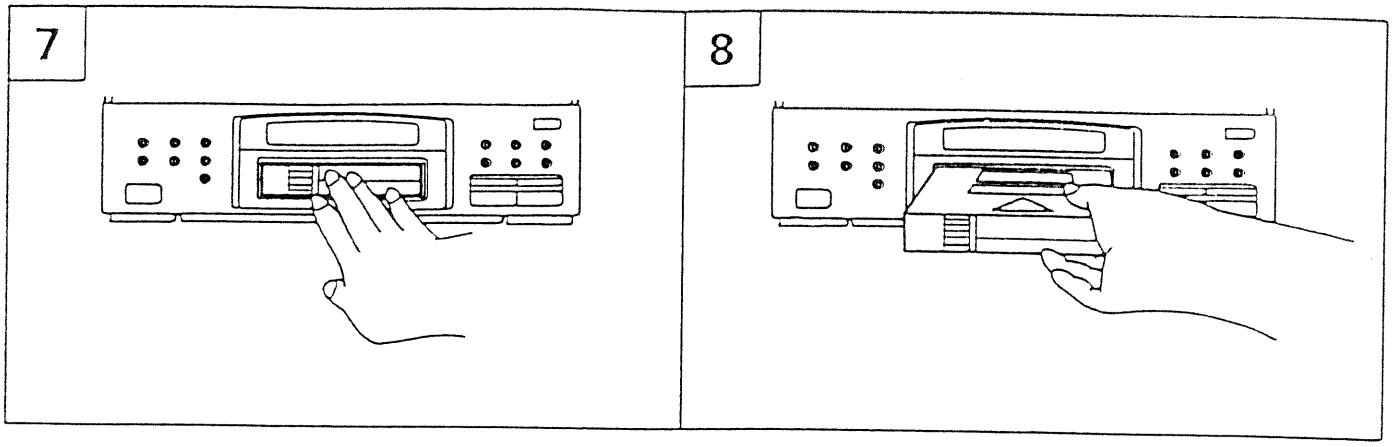
When Deck II finishes playing, Deck I automatically starts playing. Relay play from Deck I to Deck II is not possible.

RECORDING ONTO A CASSETTE TAPE (Cassette deck operation)

Material can be recorded on Deck II only. Recording is not possible on Deck I.

1. Press ■/≙ (STOP/EJECT) button, and load the tape for recording into Deck II.
   • Check to see that the accidental erasure prevention tabs are not broken off.
   • Make sure that there is no tape slack.
2. Set DOLBY NR switch to the desired position (Except for Australian and multi-voltage models of XR-J11M).
3. Use the input selector button on the amplifier section to select the recording source.

Program source	Selected indicator	Operation
Radio broadcast	TUNER	Tune into a broadcast
Tape	TAPE	Play a tape in Deck I
Compact disc	CD	Play a compact disc
Record	PHONO	Operate the turntable
VCR sound	VIDEO	Play a video cassette recorder



4. Press the ● (REC) button.
   • Recording begins.
5. Play the recording source.
6. To stop recording, press ■/≙ (STOP/EJECT) button.

Do not operate Deck I when recording on Deck II.

NOTE:
If beat noise is recorded during reception of an AM broadcast, place the AM loop antenna away from this unit and video cassette recorder.

Pausing and restarting recording

1. Press Deck II ❚❚ (PAUSE) button.
   • Recording will be suspended.
2. To restart recording again, press ❚❚ (PAUSE) button.

DOLBY NR SYSTEM (Except for Australian and multi-voltage models of XR-J11M)

The Dolby NR Systems are designed to reduce high-frequency tape hiss noise generated during playback.
The level of low-volume, high-frequency sounds is increased during recording, and decreased by the same amount during playback to restore the original level. At the same time, high-frequency noise (the most easily perceived by the human ear) is attenuated.
Dolby B-type NR system reduces high-frequency tape noise, widening the dynamic range.

NOTE:
Avoid playing back tapes recorded using the Dolby NR system with DOLBY NR switch in the OFF position, or tapes recorded without Dolby NR system with DOLBY NR switch in the ON position, since this does not allow faithful reproduction of the original sound.

SYNCHRO COPY (TAPE COPY)

In order to copy from one cassette tape to another follow this procedure:

If a tape recorded with the DOLBY NR system is copied, the copied tape will also be recorded automatically with DOLBY NR system.
If a tape recorded without the DOLBY NR system is copied, the copied tape will also be recorded automatically without the DOLBY NR system.

1. Set the input selector to TAPE, insert the cassette to be copied into Deck I compartment and insert a blank cassette into Deck II compartment.
2. Press the ❚❚ (PAUSE) and ● (REC) buttons of Deck II. Then release the ❚❚ (PAUSE) button of Deck II. This will press the ► (PLAY) button of Deck I and start the tape copy.
   When one of the cassette tapes (Deck I or Deck II) reaches its end, the deck will automatically stop. The other deck will continue running either in the recording or playing mode until its tape reaches the end.

PLAYING THE COMPONENTS CONNECTED TO VIDEO JACKS

1. Set input selector button on the amplifier to VIDEO.
2. Play the component connected to VIDEO jacks.

COMPACT DISC PLAY

Operation procedures before playback (Insertion of magazine or discs)

(See Fig. 7)

1. Push in POWER switch of amplifier section and switch ON power.
2. Insert a magazine, pushing it in until a click sound is heard.
   Please insert the discs you want to play into the magazine beforehand. (Refer to page 7 "INSERT DISCS INTO THE SIX-DISC MAGAZINE".)

Procedures after playing (Removal of magazine or discs)

(See Fig. 8)

1. Press EJECT button (≙) and eject the magazine.
2. Pull the magazine forward and remove it.
3. Push in POWER switch to change to STANDBY power.

Operations for normal playback (►/❚❚)

Playback of all tracks, from the first track on the first disc, to the last track on the sixth disc.

Operation example
• Start playback
POWER – Insert the magazine (disc) – ►/❚❚

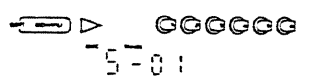
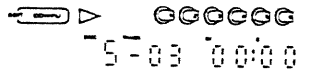
Caution:
Do not turn the power off during playback as this may damage the disc.

1. Carry out "Operation procedures before playback", and insert the magazine.
2. Press play/pause button (►/II).
   The (►) indicator will light, and playback will begin.
   The indicators will display the disc number and track number currently being played and the elapsed playback time.
   This example shows the display when the first track of first disc is played.
3. Adjust VOLUME control on the amplifier section and tone with the graphic equalizer control.
   When the last track on the sixth disc finishes playing, the player enters stop mode. All operations stop and the player stops with the number of the first track on the first disc "01", showing on the indicator.

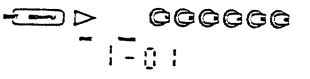
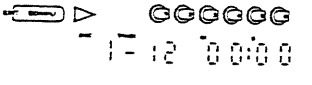
To start playing back from a desired track (Direct Disc and Track Search Operation)

During playback or stop mode, playback will begin from the track selected by specifying the disc number and track number, and will continue to the last track on the sixth disc.

Operation example
- During stop mode, to play back the third track on the fifth disc:

Operations	Indicator display
DISC NUMBER [5]	
Press [⏮ · ⏭] 2 times	

- During stop mode, to play back the twelfth track on the first disc:

Operations	Indicator display
DISC NUMBER [1]	
Press [⏮ · ⏭] 11 times	

1. **During playback, stop or pause mode, select a disc number with a DISC NUMBER button and a track number with Manual/Track search buttons (⏮ · ◄◄, ►► · ⏭).**
   - If only a disc number is selected, playback will begin from the first track on the specified disc.
   - If only a track number is selected, playback will begin from the specified track on the disc for which the player is in playback or pause mode.
2. **When selecting with Manual/Track search buttons only, press the play/pause button (►/II) to begin playback.**

NOTE:
- *Do not press the Manual/Track search buttons (⏮ · ◄◄, ►► · ⏭) continuously as manual search will be set end the track cannot be specified.*
- *When a track number of a track not on the disc is selected, playback starts from the first track.*
- *Track selection cannot begin from the disc number of a magazine tray which does not contain a disc.*
- *Performing a direct disc search operation during programmed playback causes random program to be canceled.*
- *Playback from a direct disc or track search is not possible when a program is being input in stop mode.*
- *When there is no magazine inserted and play/pause button (►/II) or RANDOM button is pressed, "dISC" will appear in the indicator for 2.5 seconds.*

To stop playback (■)

[■] or [≙]

Press stop button (■) or EJECT button (≙).
- When the stop button (■) is pressed once, the unit returns to the first track on the disc and enters the stop mode.
- When the stop button (■) is pressed twice, the unit returns to DISC 1 and enters the stop mode.
- When EJECT button (≙) is pressed, the magazine ejects.

Pause operation (II)

Operation example
- **To pause play**
  Press the play/pause button (►/II) during play.
  The pause indicator lights up.
- **To start play**
  Press the play/pause button (►/II) once again.
  The indicator turns off.

To look for a desired track (⏮, ⏭) (Track search operations)

During normal or programmed playback, or during the pause mode, these functions allow you to quickly find the beginning of a desired track. Also, any number of tracks can be skipped during the search process when so desired.
- When Manual/Track search button (⏮ · ⏭) is pressed once, playback advances to the beginning of the next track. When pressed repeatedly, playback is advanced to the beginning of succeeding tracks (During programmed play, playback advances to the beginning of the next programmed step).
- When Manual/Track search button (⏮ · ◄◄) is pressed once, playback returns to the beginning of the currently playing track. When pressed repeatedly, playback shifts to previous tracks on the disc. (During programmed playback, playback returns to the previous programmed step.)

The disc number and track number of the track currently being searched for will be displayed on the indicator; watch this indicator while searching for the desired track.

Fast forward and reverse (◄◄, ►►) (Manual search operations)

During playback or pause modes, this function allows you to quickly advance or reverse through the disc to find a desired part. Listen to the sound from your speakers or headphones while performing the search. (During playback mode only.) When the button is released the player returns to its original mode (playback or pause).
During pause, high-speed search is possible. However, no sound will be output.

- When Manual/Track search button (►►I · ►►I) is pressed continuously, the player will advance quickly through the disc. If the end of the disc is reached, the player will enter the pause mode. (The word "End" will be displayed by the indicator.)
  The pause mode can be canceled by pressing Manual/Track search button (I◄◄ · ◄◄).
- When Manual/Track search button (I◄◄ · ◄◄) is pressed continuously, the player will reverse quickly through the disc. If the beginning of the disc is reached, the player will enter the playback mode.

During the search operation, the elapsed time will be displayed on the indicator; watch the indicator while searching for the desired part.

NOTE:
During programmed playback, fast forward and reverse operations will be effective only for the currently-playing track.
Also, when using Manual/Track search button (►► · ►►I), the player will enter the pause mode right before it goes to the next program step. When using Manual/Track search button (I◄◄ · ◄◄), the player will enter the playback mode right before it goes to the previous programmed step.

CD APPLICATION GUIDE

OPERATIONS FOR REPEAT PLAYBACK

Single track repeat mode:

The track currently playing will be repeated (single track repeat).

Repeat mode for all discs:

- If pressed during normal playback mode, all tracks on the discs in the magazine will be played back repeatedly (all disc repeat).
- If pressed during programmed playback, the programmed tracks will be repeatedly played back in the programmed order (programmed repeat).
- In the case of random playback mode, after all the tracks have been played, random playback will start again (random repeat).

1. **With the player in the playback or stop mode, press the REPEAT button.**
   When pressed once, the player will enter the single track repeat mode. The [(1)►-REPEAT] indicator will light. If the button is pressed again, tracks on all discs in the magazine will be repeated. The [REPEAT] indicator will light.

2. **When the last track has been played back, playback will begin again from the first track.**
   Playback will be repeated until repeat playback is canceled.
   - During normal playback, all tracks on all discs in the magazine will be played back repeatedly (all discs repeat).
   - During programmed playback, the tracks programmed will be played back repeatedly in the sequence of the program (programmed repeat).
   - Programming of only one disc — one-disc repeat.
   - Programming of only one track — one-track repeat.
   - When the RANDOM button is ON during normal playback, after all the tracks on the discs are played at random, the random function will start again.
   - If "delete play" has been set, all songs that have not been deleted will be played repeatedly.

To cancel the repeat mode

REPEAT ◎ or ■ or ≙

- Press REPEAT button until the REPEAT indicator will go out, and the player will revert to the normal (or programmed) playback mode.
- Press stop button (■) or EJECT button (≙). Playback will stop and the repeat mode will be canceled simultaneously.

RANDOM PLAYBACK

- Each track of a disc set in the magazine will be played at random. After all the tracks have been played, the player will go into stop mode.

RANDOM

1. Press RANDOM button
   Random playback will begin.
   (The RANDOM indicator will light.)
2. Pressing RANDOM button once more will have the player select a track at random for playback.

To cancel random playback operation

■ or ≙

- Press stop button (■) or EJECT button (≙). Playback will stop and random playback operation will be canceled simultaneously.
- Performing operations for playback from a direct disc search will also cancel random playback.

HI-LITE SCAN

Using this feature will cause 10 seconds of each track to be played back in sequence.
When stopping play, pressing the button once turns on the DISC HI-LITE SCAN, and pressing it twice turns on the TRACK HI-LITE SCAN. (These alternate during play)

- To play 10 seconds of each disc and track at a point about 1 minute after the beginning of the track.

HI-LITE SCAN

- During disc scan (the [DISC SCAN] indicator is lit) the HI-LITE SCAN function operates on the first track of each disc in the magazine from disc 1 through disc 6.
- During track scan (the [SCAN] indicator is lit) the HI-LITE SCAN function operates on all tracks of each disc in the magazine from disc 1 through disc 6.
- To change the playback point, press the HI-LITE SCAN button at the desired point, while the unit is in playback mode. 10 seconds of each subsequent track will be played back from the selected point.

NOTE:

- *To stop the HI-LITE scan mode in the middle, press the stop button (■). The ordinary playback mode will be resumed by pressing the play/pause button (►/II).*
- *When the play time of the track is 1 minute or is shorter than the specified time, the 10 seconds passage will be played from the beginning of the track. If tracks are less than 10 seconds in length the entire track will be played.*

TO PLAYBACK TRACKS IN A DESIRED ORDER (PROGRAMMED PLAYBACK)

- With this function, you can play back the tracks on the discs in the magazine in any order desired.
- By specifying disc numbers from 1 to 6, and track numbers from 1 to 99, you can select up to 32 steps for playback in any order you like.

Memorizing a program

1. During the stop mode, press the PROGRAM button. PROGRAM indicator will light.
2. Press the DISC NUMBER button which contains the track to be programmed.
   To program entire discs, enter the desired disc numbers with the DISC NUMBER buttons and go to step 4.
   - When the (DISC NUMBER) button is pressed, "AL" (all tracks) appears on the display.
3. Press the Manual/Track search buttons (I◄◄ · ◄◄, ►► · ►►I) so that the desired track number appears on the display.
4. Press PROGRAM button.
5. Repeat the steps 2 through 4 for other tracks to be programmed.
6. Press the play/pause button (►/II).
   The tracks are played in the programmed order. When all programmed tracks have been played, the player enters the stop mode.

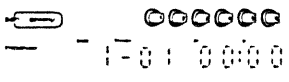
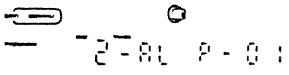
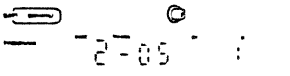
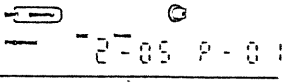
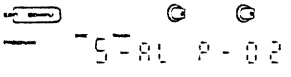
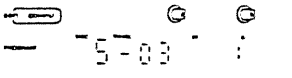
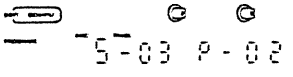
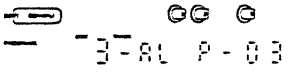
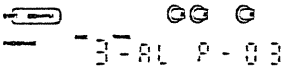
Cancellation of programmed playback and clearing a program

- Pressing stop button (■) will cause playback to stop. In this case the program stored in memory will not be cleared. To clear the program, press stop button (■) once more.
- Press EJECT button (≙). When pressed during playback, the magazine will eject, and the program will be cleared.

Operation example

To playback the fifth track on the second disc, the third track on the fifth disc, and all of the third disc in that order:

• Memorize the program:

Step	Operations	Indicator display
01	PROGRAM ●	
	DISC NUMBER [2]	
	Press [⏮ · ⏭] 5 times	
	PROGRAM ●	
02	DISC NUMBER [5]	
	Press [⏮ · ⏭] 3 times	
	PROGRAM ●	
03	DISC NUMBER [3]	
04	PROGRAM ●	

• To start play:
[►/II] : ordinary program
• To stop playback
[■] : Playback stop (Program left intact.)
• To cancel playback and clear the program:
[■] — [■] : Stops playback and clears the program.
[⏏] : Stops playback, clears the program, and ejects the magazine.

TO PROGRAM A PAUSE OPERATION (OPERATIONS FOR PAUSE PROGRAM)

During programmed playback, these operations cause the player to pause at the beginning of tracks for which a pause has been specified.

Application Example 1:
When recording on both sides of a cassette tape, programming for a pause to occur after the completion of the last track, before the first side of the tape runs out. This will enable recording of the next track to begin after the tape has been turned over.

Application Example 2:
When recording on tape, program for pauses to occur between tracks. This will allow black intervals or narration to be recorded on the tape, after which recording can be resumed.

Memorizing a pause program

Inserting a pause in your program can be very useful when carrying out recording. Press the pause button (II) of the remote control unit instead of entering a track number. "PA" appears on the display panel.

• For example, when recording on both sides of a cassette tape, if you program a pause after the last track to be recorded on the first side, program playback will pause at that point to allow you to switch tape sides. To resume program playback after the player enters the pause mode, press the play (►) and pause (II) buttons of the remote control unit or the play/pause button (►/II) of the main unit.

NOTE:

- *A pause cannot be programmed at the beginning of a program (P-01), nor can two pauses be programmed one after the other.*
- *A pause inserted in a program is counted as one step.*
- *If a pause is programmed as the last step of a program, the player will not enter the pause mode.*

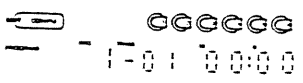
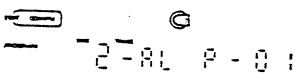
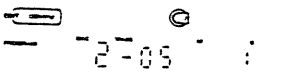
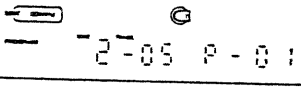
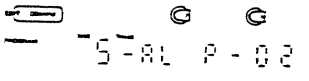
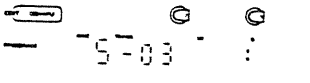
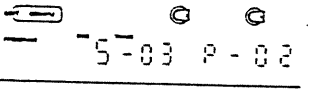
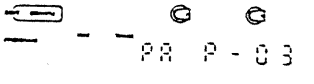
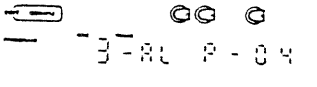
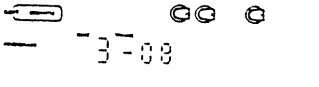
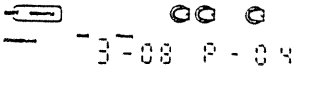
Method of playback

1. Press play/pause button (►/II) to begin playback.
   The player will pause at the beginning of the track for which a pause has been specified.
2. To resume playback, press play/pause button (►/II).

Operation example

To program the player to playback the fifth track on the second disc, the third track on the fifth disc, and the eighth track on the third disc, with a pause before the last selection.

• Memorize the program:

Step	Operations	Indicator display
01	PROGRAM ◎	
	DISC NUMBER [2]	
	Press [⏮ · ⏭] 5 times	
	PROGRAM ◎	
02	DISC NUMBER [5]	
	Press [⏮ · ⏭] 3 times	
	PROGRAM ◎	
03	Remote control unit [II]	
04	DISC NUMBER [3]	
	Press [⏮ · ⏭] 8 times	
05	PROGRAM ◎	

• To start and resume playback:

[►/II] : Player pause after playing the third track on the fifth disc.

[►/II] : Player resumes programmed playback.

PROGRAMMING DURING PLAYBACK (Direct program)

Programming can be carried out during normal playback or Track Hi-Lite Scan playback. You can program the tracks while listening to a part of each track.

1. During playback, press the PROGRAM button.
2. Whenever a track to be programmed is played, press the PROGRAM button.
3. You can repeat step 2 until up to 32 tracks are programmed.
4. When finished, press play/pause buttons (►/II). The current playback is cleared and the tracks are played in the programmed order.
   • Direct programming can also be carried out during Track Hi-Lite Scan playback by using the preceding procedure.

DELETE PROGRAMMED PLAYBACK

■ When tracks that you do not wish to listen to are selected and programmed with this function, the programmed tracks will not be played even when play/pause button (►/II) is pressed and play is started.

1. Press DELETE button. DELETE indicator will light.
2. Select a disc number with DISC NUMBER buttons and a track with Manual/Track search buttons (⏮ · ⏪, ⏩ · ⏭).
3. Press DELETE button.
4. Repeat procedures 2 and 3.

EDIT RECORDING

With Edit features, you can designate the recording time of your tape, and then the unit automatically selects tracks from a single disc that can be recorded within the designated recording time.
The selected tracks are then edit recorded onto one side of a tape at a time (side A and side B).

1. Insert the 6 disc magazine into the CD player section.
2. Press the CD button on amplifier section.
3. Load the tape for recording into Deck II.
4. Set the DOLBY NR switch to the desired position. (Except for Australian and multi-voltage models of XR-J11M.)
5. Press the EDIT button on CD player section.
   The indicators "◖, ◗" which are located on both sides of the COMPU indicator light.
6. Press the DISC NUMBER button on CD player section to select the desired disc number within 3 seconds.
7. Use ⏮·◀◀, ▶▶·⏭ on CD player section to find the appropriate tape length within 3 seconds (see below).

46 → 54 → 60 → 74 → 90 (minutes)

- If no selection is made within 3 seconds, the program is automatically set to 60 minutes.

8. Press the EDIT button on CD player section again.
9. Press the REC (●) button on Deck II.
10. Press the play/pause (▶/II) button on CD player section to start EDIT recording.
    When recording for side A is finished, the CD player changes to pause position and the tape will stop.
    Flip the cassette tape over and repeat the above procedure.

To stop EDIT during recording:

Press Deck II ■/⏏ or press the CD ■.

NOTE:
The edit function always starts with the first track on the CD.

MICROPHONE MIXING (XR-J22M only)

Mixing involves combining the signals from two input sources (a microphone and a tape, for example).

MIXING PROCEDURE

1. Plug a microphone into MIC jack.
2. Adjust VOLUME to a suitable level.
3. Set MIC LEVEL control to the center position between MIN and MAX.
   - If howling occurs (a high-pitched sound from the speakers), take the following steps.
   1. Move the microphone away from the speakers.
   2. Lower the volume.
4. Select the desired program source using input selector buttons.
5. Start playback of the program source.
6. Adjust VOLUME control.
7. Use MIC LEVEL control to adjust the microphone level in relation to the music source.
8. Talk or sing into the microphone.

MIXING RECORDING

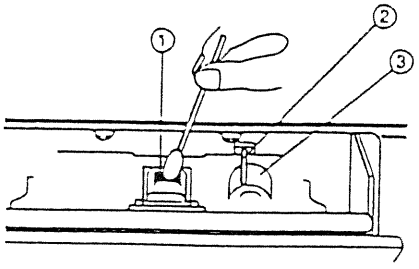
You can use the mixing feature to record input from a microphone and another source together.

1. Perform steps 1 to 7 in the section "MIXING PROCEDURE".
2. Load a tape for recording into Deck II.
3. Press the ● (REC) button.
4. Sing along with the program source.

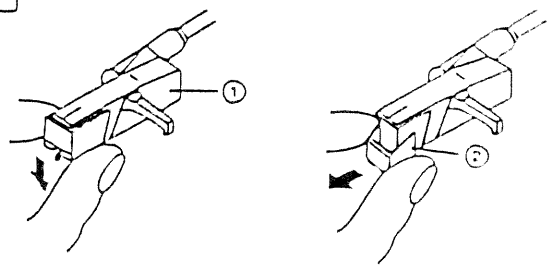
NOTE:
When microphone mixing while playing back on Deck I, mixing recording is not possible on Deck II.

MAINTENANCE

9



10



CLEANING THE HEAD SECTION

See Fig. 9

① Head ② Capstan ③ Pinch roller

The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

- Press STOP/EJECT button to open the cassette door.
- Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstan, and pinch rollers. Wait 2—3 minutes until cleaning fluid dries.

DEMAGNETIZING THE HEAD

The recording/playback head becomes magnetized when you use the cassette deck for prolonged periods of time. This results in noise being generated and the treble dropping off during recording and playback. The recording/playback head should therefore be demagnetized regularly with a commonly sold head demagnetizer. When demagnetizing the head, switch power ON to the cassette deck receiver.

To avoid adversely affecting the amp and speakers, be sure to set the volume level to MIN. Also disconnect the headphone plug from the PHONES jack.

For further details, refer to the operating instructions accompanying your head demagnetizer.

NOTE:

Do not hold a screwdriver, metal objects or magnets close to the heads.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays and other chemicals on or near this unit, since these will corrode the surfaces.

REPLACING THE STYLUS (PL-J210)

1. **Remove the stylus gently.** (See Fig. 10)
2. **Attach the new stylus to the cartridge.**

① Cartridge ② Stylus

NOTE:

- *The service life of the stylus on the supplied cartridge ranges from 800 to 1,000 hours. (After about a year if you play records for about two hours everyday. However, the stylus may need to be replaced earlier depending on the way it is used.)*
- *Using a worn or damaged stylus can damage your records and distort the sound reproduction. Remember to replace the stylus at the earliest possible date.*
- *Always use the PIONEER "PN-210" as a replacement stylus.*
- *Always ask for a genuine PIONEER replacement stylus.*

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Cassette deck, amplifier section

Symptom	Cause	Remedy
Power switch is on but power does not turn on.	• AC cord is unplugged.	• Plug power cord into wall socket.
No sound from speakers.	• Volume is turned all the way down. • Speaker cords are disconnected. • Input selector is not set to your desired listening source. • Connection cords are not connected or are damaged.	• Increase volume knob setting. • Connect speaker cords correctly. • Select correct input selector. • Connect correctly or replace with good quality cords.
Sound from only one speaker.	• One of the speaker cords is disconnected or damaged.	• Connect correctly.
Screeching or howling sound heard during mic mixing. (XR-J22M only)	• Microphone angle is bad. • Microphone is too close to speaker. • Volume is too loud.	• Change microphone angle. • Move microphone further away from speakers. • Reduce the volume.
Tape does not move.	• Deck is in pause mode. • Cassette is inserted incorrectly.	• Press ⏸ (PAUSE) button. • Put cassette properly in holder.
No sound heard from tape.	• Input selector is not set to TAPE. • Playing an unrecorded tape.	• Set to TAPE. • Play a recorded tape.
Tape sounds unclear, not loud enough.	• Dirty head.	• Clean head.
Cannot record.	• Erasure prevention tabs are broken off. • Dirty head.	• Apply adhesive tape over tab holes. • Clean head.
Treble tones unclear.	• Dirty head. • DOLBY NR system is ON when listening to a tape recorded without DOLBY NR. (Except for Australian and multi-voltage models of XR-J11M)	• Clean head. • Use the same noise reduction system for playback as for recording. (Do not play tapes recorded with different NR systems.)
Treble tones too strong.	• Tape recorded with DOLBY NR but played without. (Except for Australian and multi-voltage models of XR-J11M) • Tape recorded with DOLBY NR. (Except for Australian and multi-voltage models of XR-J11M)	• Play in the same condition as recording. (Turn on DOLBY NR switch for recorded tapes with DOLBY NR.) • Use tapes that are not DOLBY NR encoded.
Strange sounds heard (or recorded from) tape, CD, or radio.	• TV is on. • This unit is too close to TV.	• Turn off TV. • Move TV away until interference stops.

Tuner section

No reception.	• Antenna is not connected. • Wrong radio band. • Station not tuned in. • Input selector not set to TUNER.	• Connect antenna correctly. • Set to desired radio band. • Tune in station. • Set to TUNER.
Beat noise heard.	• TV is on. • Loop antenna position is bad.	• Turn off TV or move TV away. • Change loop antenna position.
Noise heard.	• Interference from nearby fluorescent light, hair dryer, or other electrical appliance. • Not tuned in correctly.	• Stop using device causing interference. • Use tuner controls to tune in station.
Sound is distorted.	• Antenna is in poor position. • Broadcast is weak. • Interference from other electrical devices or multipath reception.	• Change antenna position. • Use external antenna. • Change antenna position.

Compact disc player section

Symptom	Cause	Remedy
Magazine is not expelled when EJECT button is pressed.	• POWER switch of amplifier section is STANDBY.	• Press POWER switch ON.
When playback is started, it stops immediately. Pauses or stops playback.	• Disc is loaded upside down. • Contaminated disc, etc.	• Load the disc correctly with the label side DOWN. • Press (►/II) button. • Clear the fog from the disc and then play it again.
No sound.	• Incorrect operation of amplifier section. • Player is in pause mode.	• Check the settings of amplifier switches and sound volume controls. • Press (►/II) button
Sound is distorted, noise is output.	• Interference is being picked up from a TV set.	• Switch OFF TV set, or move player away from TV set.
With certain discs, loud noise is produced, or play stops.	• Disc is badly scratched or warped. • Disc is extremely dirty.	• Replace the disc. • Clean the disc.

Remote Control Unit

Remote control does not work.	• Batteries are dead or no batteries in remote control unit. • Poor angle or too great a distance from the remote sensor window. • There is an obstacle between you and the remote sensor window. • A fluorescent light is shining on the remote sensor window.	• Insert new batteries. • Use within seven meters and within a 30 degree angle of the remote sensor window. • Change your position or move the obstacle. • Turn off the light.

Turntable

Platter does not turn.	• Belt is off.	• Put belt correctly on platter.
No sound.	• Input selector not set to PHONO.	• Set to PHONO.
Noise or scratchy sounds.	• Dust on record. • Scratch on record.	• Clean record. • Use good record.

Abnormal functioning of this unit may be caused by lightning, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

SPECIFICATIONS

Stereo multi-play CD cassette deck receiver: XR-J11M/XR-J22M

Amplifier Section

[XR-J11M U.S. and Canadian models]

Continuously Average Power Output is 100 Watts* per channel, min., at 8 ohms from 70 Hertz to 20,000 Hertz, with no more than 0.9 %** total harmonic distortion.

** Measured pursuant to the Federal Trade Commission's Trade Regulation rules on Power Output Claims for Amplifiers.*

[XR-J11M/XR-J22M Multi-voltage and Australian models]

Peak music power output ..... 600 W/6 Ω

Continuous power output (RMS) ..... 50 W + 50 W
(1 kHz, T.H.D. 10 %, 6 Ω)

Graphic equalizer frequency band ..... 100 Hz, 330 Hz, 1 kHz, 3.3 kHz, 10 kHz, ±7 dB

SPECIFICATIONS

Cassette Deck Section

Systems ..... 4 track, 2-channel stereo
Heads ..... Recording/playback head x 1
Playback head x 1
Erasing head x 1
Motor ..... DC servo 2 speed motor x 1
Wow and flutter ..... No more than 0.3 % (WRMS)
Fast winding time ..... Approximately 105 seconds (C-60 tape)
Frequency response (−20 dB recording):
TYPE I (Normal) ..... 35 Hz to 14,000 Hz ±6 dB
Signal-to-Noise ratio
Dolby NR OFF ..... More than 50 dB
Noise reduction effect (only models featuring built-in Dolby NR)
Dolby B type NR ON ..... More than 10 dB (at 5 kHz)

FM Tuner Section

Frequency range ..... 87.5 MHz to 108 MHz
Usable sensitivity ..... Mono: 14.2 dBf, IHF (1.4 µV/75 Ω)
Signal-to-Noise ratio (IHF, 85 dBf Input) ..... Mono: 70 dB
Antenna input ..... 75 Ω unbalanced

AM Tuner Section

Frequency range
With 10 kHz step ..... 530 kHz to 1,700 kHz
With 9 kHz step ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 385 µV/m
Antenna ..... Loop antenna

CD Section

Type ..... Compact disc digital audio system
Frequency response ..... 4 Hz to 20 kHz
Number of channels ..... 2 channels (stereo)

Accessories

Operating Instructions 1
Remote control unit 1
Dry cell batteries "AA" (IEC R6/UM-3) 2
FM antenna 1
AM loop antenna 1
6-compact disc magazine 1

Miscellaneous

Power requirements
U.S. and Canadian models ..... AC 120 V, 60 Hz
Australian model ..... AC 240 Volts −, 50/60 Hz
Multi-voltage model ..... AC 110/120—127/220/240 V (Switchable), 50/60 Hz
Power consumption
U.S., Australian and Multi-voltage models ..... 250 W
Canadian models ..... 350 VA
Dimensions ..... 360 (W) x 420 (H) x 348.3 (D) mm
14-3/16 (W) x 16-1/2 (H) x 13-11/16 (D) in
Weight (without package)
U.S. and Canadian models ..... 11 kg (24 lbs, 4 oz)
Australian and Multi-voltage models .... 9.3 kg (20 lbs, 7-3/8 oz)

The Magazine Type Multi-Play CD Players with mark and the Magazines with the same mark are compatibles for 5-inch (12 cm) discs.

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Speakers: S-J11/S-J11D

[S-J11]
Enclosure ..... Book-shelf style, Bass-reflex type
Loudspeakers
Woofer ..... 16 cm x 1
Mid range ..... 6.6 cm x 1
Tweeter (dome type) ..... 1.4 cm x 1
Nominal impedance ..... 8 Ω
Frequency range ..... 50 to 20,000 Hz
Sensitivity ..... 85 dB/W at 1 m distance
Maximum power ..... 150 W
Dimensions ..... 220 (W) x 420 (H) x 218 (D) mm
8-11/16 (W) x 16-1/2 (H) x 8-9/16 (D) in
Weight ..... 8.5 kg (2 speakers)
(18 lbs, 11-3/16 oz)

Accecceries

Speaker cord 2

[S-J11D]
Enclosure ..... Book-shelf style, Bass-reflex type
Loudspeakers
Woofer ..... 17 cm x 1
Mid range ..... 6.6 cm x 1
Tweeter (dome type) ..... 1.6 cm x 2
Nominal impedance ..... 6 Ω
Frequency range ..... 43 to 20,000 Hz
Sensitivity ..... 86.5 dB/W at 1 m distance
Maximum power ..... 60 W
Dimensions ..... 260 (W) x 450 (H) x 199 (D) mm
10-1/4 (W) x 17-11/16 (H) x 7-13/16 (D) in
Weight ..... 8.6 kg (2 speakers) (18 lbs, 14-22/32 oz)

Auto Return Stereo Turntable: PL-J210

Motor, Platter

Motor type ..... DC servo motor
Drive method ..... belt drive
Speed ..... 33-1/3, 45 RPM
Wow and flutter ..... 0.07 % WRMS (JIS)
±0.10 % WTD Peak (DIN)
Signal-to-Noise ratio ..... 63 dB (DIN-B)
Platter ..... 295 mm dia., aluminum die-cast

Tonearm

Type ..... Dynamic balance type, straight tonearm

Installed Cartridge

Type ..... MM Type
Stylus ..... 0.6 mil diamond
Replacement stylus PN-210
Output voltage ..... 2.5 mV (1 kHz, 5 cm/s, Lat. peak)
Tracking force ..... 2.0 — 3.0 g (optimum 2.5 g)
Frequency response ..... 20 Hz to 25,000 Hz
Load resistance ..... 47 kΩ
Cartridge weight ..... 4 g

Other

Dimensions ..... 360 (W) x 94 (H) x 364 (D) mm
14-3/16 (W) x 3-11/16 (H) x 14-5/16 (D) in
Weight ..... 2.4 kg (5 lbs, 4 oz)

Accessories

EP adaptor 1

- *Specifications and design of this product are subject to possible modification without notice, due to improvements.*

** *Measured By Audio Spectrum Analyzer.*

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